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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/761,168	01/20/2004	Dieter E. Staiger	DE920010096US2	2561
25299	7590	08/09/2006	EXAMINER	
IBM CORPORATION PO BOX 12195 DEPT YXSA, BLDG 002 RESEARCH TRIANGLE PARK, NC 27709			SEMENENKO, YURIY	
			ART UNIT	PAPER NUMBER
			2841	

DATE MAILED: 08/09/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/761,168

Applicant(s)

STAIGER, DIETER E.

Examiner

Yuriy Semenenko

Art Unit

2841

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 14-19 and 25 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 14-19 and 25 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 20 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☒ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
- Paper No(s)/Mail Date 01/20/04.

- 4) ☐ Interview Summary (PTO-413)
- Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

Specification

1. Applicant is required to update the status (pending, allowed, etc.) of all parent priority applications in the first line of the specification. The status of all citations of US filed applications in the specification should also be updated where appropriate.

Claim Objections

2. Claims 14-19 are objected to because of the following informalities:

Claim 14: "Electronic unit" should be changed to – An electronic unit—for proper antecedence basis.

Claims 15-19: "Electronic unit" should be changed to – The electronic unit—for proper antecedence basis.

Claim 16: "a system specific entry connector" should be changed to – The system specific entry connector - for proper antecedence basis; and

"a pass-on connector" should be changed to – the pass-on connector - for proper antecedence basis;

Appropriate correction is required.

Claim 17: Should explain with more details term - "daisy chin" configuration-

Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

Art Unit: 2841

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3.1. Claims 14 and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Solberg (Patent # 6121676) hereinafter Solberg.

As to claim 14: Solberg discloses in Fig. 3 an electronic unit comprising: a multi-planar board system, wherein said multi-planar board system is characterized by single planar boards 26 connected with each other by a flexible cable 10 providing electrical contacts and signal drive, wherein the contacting surfaces 32, Fig. 6 of said planar boards are separated from and adjusted to each other by a continuous cover element 40.

As to claim 17: Solberg teaches in Fig. 5 the electronic unit according to claim 14, wherein a final packaging of said planar boards builds up a "daisy chain" configuration (see Fig. 5).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.

3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

4.1. Claims 15-16 are rejected under 35U.S.C. 103(a) as being unpatentable over Solberg.

As to claims 15 and 16: Solberg teaches in Fig. 16 the electronic unit having all of the claimed features as discussed above with respect claim 14. Although, Solberg doesn't explicitly teach said multi-planar board comprising single planar boards 726 having a system specific entry connector and a pass-on connector at one side or having a system specific entry connector at one side and a pass-on connector at the other side, at time the invention was made, it was well known, that chip (chip 726, for example, as a memory device, Solberg, column 4, lines 30-40) inherently has I/O connectors (for example, for interface with processor) which can be located on left or right sides of the connection surface or on both sides of the connection surface of the chip).

Therefore it would have been obvious to one of ordinary skill in the art, at time the invention was made, for Solberg to include in his invention that wherein said multi-planar board comprising single planar boards having a system specific entry connector and a pass-on connector at one side or having a system specific entry connector at one side and a pass-on connector at the other side to provide options for system design.

4.2. Claim 18 is rejected under 35U.S.C. 103(a) as being unpatentable over Solberg in view of Salt (Patent #5603375) hereinafter Salt.

As to claim 18: Solberg discloses the electronic unit having all of the claimed features as discussed above with respect claim 14,

except, Solberg doesn't explicitly teach said cover element includes a plastic bag having stabilizing elements and folding points, wherein said plastic bag is filled with a heat conducting liquid.

Salt discloses the cover element 2, Fig. 4 (column 3, lines 39-51) includes a plastic bag (column 4, lines 18-24) having stabilizing elements 11 and folding points 10, 9, wherein said plastic bag is filled with a heat conducting liquid 8, fig. 3.

Therefore it would have been obvious to one of ordinary skill in the art, at time the invention was made, for Solberg to include in his invention that said cover element includes a plastic bag having stabilizing elements and folding points, wherein said plastic bag is filled with a heat conducting liquid to provide a heat transfer for many practical applications, as taught by Salt (column 1, lines 34-39).

4.3. Claims 19 and 25 are rejected under 35U.S.C. 103(a) as being unpatentable over Solberg in view of Tanaka et al. (Patent #6744954) hereinafter Tanaka.

As to claim 19 and 25: Solberg discloses the electronic unit having all of the claimed features as discussed above with respect claim 14,

except, Solberg doesn't explicitly teach said cover element is filled with a silicon gel.

Tanaka discloses a silicon gel as a filler 4, Fig. 6B for the optical fiber unit 1 (column 12, lines 55-67).

Therefore it would have been obvious to one of ordinary skill in the art, at time the invention was made, for Solberg to include in his invention that said cover element is filled with a silicon gel to provide a heat transfer.


5.1. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yuriy Semenenko whose telephone number is (571) 272-6106. The examiner can normally be reached on 8:30am - 5:00pm.

5.2. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on (571)- 272-1957. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2841

5.3. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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WAMAND CUNEO
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800